

No other tool offers so many time and money-saving advantages.

Weld Without Pre-Beveling • Reduce Costly Grinding • Works on ALL Metals • Uses Ordinary Shop Air • Low Hourly Cost • Versatile • Works in Any Position • Low Heat Input • Automatic Production Models.

ARCAIR COMPANY Catalog

STANDARD TORCHES

MODEL 61-042 (FORMERLY H-2)

USE:

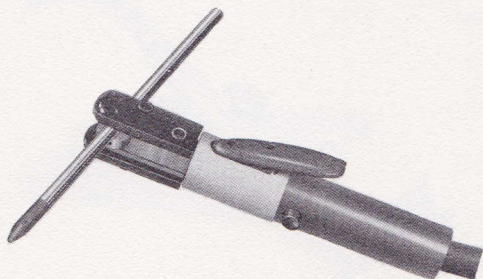
Light, intermittent work such as body shops, farm shops, light maintenance or sheet metal, or limited air supply. Not recommended for continuous use in industry.

FEATURES:

Rotating head with single air orifice. Air valve in handle. Concentric cable.

SIZE:

Takes $\frac{5}{32}$ ", $\frac{3}{16}$ ", and $\frac{1}{4}$ " electrodes.



MODEL 61-062 (FORMERLY H-3)

USE:

General purpose torch for continuous industrial use such as steel fabricators, shipyards, railroads, and general maintenance.

FEATURES:

Rotating head with double air orifice. Push-button valve in handle. Copper alloy construction throughout. Glass laminate sleeve to protect handle. Concentric cable with protected cable connection.

SIZE:

Takes $\frac{5}{32}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", and $\frac{3}{8}$ " electrodes.

MODEL 61-102 AND MODEL 61-122

(FORMERLY H-5)

(FORMERLY H-6)

USE:

Heavy duty for foundries and heavy metal fabricators requiring large electrodes and versatility.

FEATURES:

Same as Model 61-062 above, but heavier construction, longer handle and delivering more air for removing large amount of metal.

SIZE:

61-102 takes $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", and $\frac{5}{8}$ " electrodes.

61-122 takes $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", and $\frac{3}{4}$ " electrodes.

MODEL 62-002 SERIES

(FORMERLY H-55)

USE:

Heavy duty torch for flash removal, cutting holes and other jobs requiring frequent reversal of direction.

FEATURES:

Two rotating heads supplying air through four orifices to both sides of the electrode, making it unnecessary to reposition electrode in order to reverse direction. Push button air valve in handle and concentric cable.

SIZE:

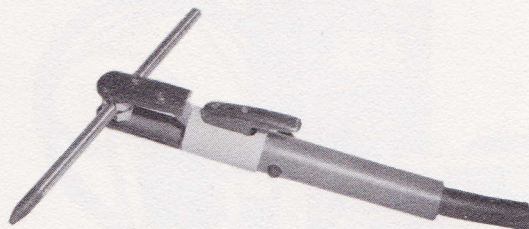
62-042 takes $\frac{1}{4}$ " electrodes.

62-102 takes $\frac{5}{8}$ " electrodes.

62-062 takes $\frac{3}{8}$ " electrodes.

62-122 takes $\frac{3}{4}$ " electrodes.

62-082 takes $\frac{1}{2}$ " electrodes.



Arcair COMPANY
Bremerton, Wash.
Lancaster, Ohio

SPECIAL PURPOSE TORCHES

MODEL 62-007 SERIES

(FORMERLY V SERIES)

USE:

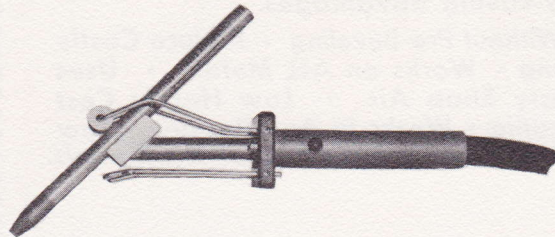
Heavy duty work. Primarily foundry pad washing and external fin and sprue removal.

FEATURES:

Special purpose torch. Head design prevents movement of electrode from position shown and permits use of one size electrode only. Be sure to order proper size. Open type construction is light in weight and affords good visibility. Air valve in handle and concentric cable.

SIZES:

62-087 for 1/2" electrodes only 62-107 for 5/8" electrodes only
62-127-001 for 3/4" electrodes only 62-167-001 for 1" electrodes only.



MODEL 62-006-001 SERIES

(FORMERLY R SERIES)

USE:

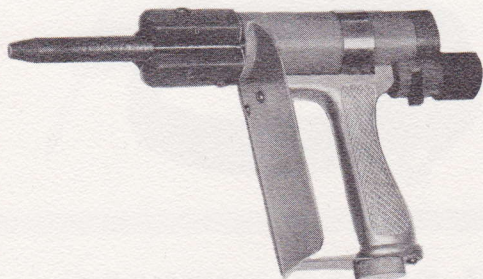
Extra heavy duty work where extremely high currents are to be used. Primarily foundry pad washing.

FEATURES:

Special purpose torch. Head design permits use of one size electrode only. (Three jaws provide additional contact area with electrode). Be sure to order proper size. Pistol grip with heat shield increases versatility and may be rotated around barrel to locate air in most desirable position. Concentric cable includes metal braid cover and tri lug connection.

SIZE:

62-086-001 for 1/2" electrode only 62-106-001 for 5/8" electrode only
62-126-001 for 3/4" electrode only 62-166-001 for 1" electrodes only.



SEMI-AUTOMATIC TORCHES

MODEL: SERIES 64-002 (FORMERLY T SERIES)

USE:

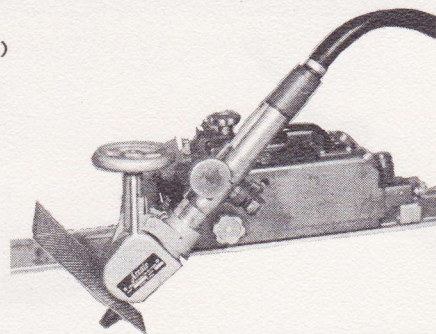
Primarily fabrication or other applications where it is desired to mount the torch on a tractor or manipulator. Particularly suitable for weld seam preparation.

FEATURES:

Bracket mounted torch with manual electrode feed. Racking bracket provides for mounting torch on fixture, manipulator or tractor, and easily adjusting angle and distance from work. Electrode is loaded in rear and fed manually with hand wheel at top. Heat shield is provided to protect operator's hand. Although torch is supplied for one size electrode only, interchangeable shoes are available which makes it readily adaptable to other sizes. Complete with concentric cable, but tractor not included.

SIZES:

64-042 for 1/4" electrode 64-052 for 5/16" electrode 64-062 for 3/8" electrode
64-082 for 1/2" electrode 64-102 for 5/8" electrode.



AUTOMATIC TORCHES

MODEL: SERIES 65-002 (FORMERLY Q SERIES)

USE:

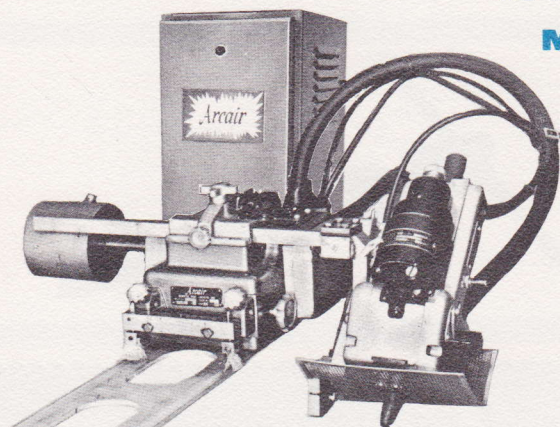
Primarily fabricators, shipyards, or other applications where automatic Arcair is desired. Particularly suitable for weld seam preparation.

FEATURES:

Tractor driven automatic head with all-position adjustment of electrode angle, infinitely variable electrode feed. Floating head device to maintain constant distance from work surface. Complete with heat shield, auxiliary air jet, contactor to break arc circuit, and special tractor with counterweights and track. Supplied with shoe for electrode size specified only; however, interchangeable shoe caps are available making it readily adaptable to other sizes.

SIZES:

65-042 for 1/4" electrode 65-052 for 5/16" electrode 65-062 for 3/8" electrode
65-082 for 1/2" electrode 65-102 for 5/8" electrode.



Arcair Company Bremerton



ARC TIME RECORDERS

USE:

A precision instrument designed to clearly define costs of ARCAIR AND WELDING OPERATIONS . . . it measures accurately the actual amount of "arc time" by recording the precise number of minutes and tenth of minutes required to complete a job. Provides a fair and un-biased basis for bonus pay. Small shop operators will find them an excellent means to check arc time thus providing more accurate cost data.

FEATURES:

Special brazing system eliminates "over-ride" and insures correct arc time . . . the clock shows the amount of arc time accumulated . . . each unit is provided with an individual lock and key . . . two signal lights, red (assuring unit is hooked up) and amber (indicating arc voltage is being recorded) are mounted above the clock. Recorders can be mounted near the work or in a central area for an overall picture of the operation at a glance.

SIZES:

Information required when ordering arc time recorders:

1. POWER SOURCE — AC, DC, AC-DC or Constant Voltage.
2. VOLTAGE — If other than standard 15-58 volts, indicate range desired.
If used for welding, what processes will be recorded.
3. CLOCK CURRENT — 115 or 230 volt.

Also Available — Current Relay for use in series with Variable Voltage Timers where open circuit voltage in normal welding voltage range is possible. Cat. No. 72-004-001.

Model No.	Process Current	Clock Current
52-011-001	AC	115 volt.
52-012-001	DC	115 volt.
52-013-001	AC-DC	115 volt.
52-014	CV	115 volt.

Model No.	Process Current	Clock Current
52-021-001	AC	230 volt.
52-022-001	DC	230 volt.
52-023-001	AC-DC	230 volt.
52-024	CV	230 volt.

CARBON PRODUCTS

a complete line of quality carbon products

CARBON PLATES . . .

Used as back up material when welding thin sections or as a dam when building up broken parts. Reduces the need of subsequent chipping or grinding.

Size	Number
1/4x6x12	48 043 006
1/4x12x12	48 043 012
1/4x18x15	48 046 015
3/8x6x3	48 061 003
3/8x12x6	48 063 006
3/8x12x12	48 063 012
3/8x24x6	48 067 006
1/2x6x3	48 081 003
1/2x12x6	48 083 006
1/2x12x12	48 083 012
1/2x24x2	48 087 002
3/8x12x8	48 103 008
3/8x12x12	48 103 012
3/4x6x3	48 121 003
3/4x12x6	48 123 006
3/4x12x12	48 123 012
1x6x12	48 163 006
1x12x12	48 163 012
1 1/2x18x15	48 246 015
2x18x15	48 326 015

CARBON RODS . . .

Used as cores and fillers to prevent holes from filling with weld metal.

Size	Number
3/16x12	47 033
1/4x12	47 043
5/16x12	47 053
3/8x12	47 063
1/2x12	47 083
5/8x12	47 103
3/8x24	47 107
3/4x12	47 123
7/8x12	47 143
1x12	47 163
1x24	47 167
1 1/8x12	47 183
1 1/8x24	47 187
1 1/4x12	47 203
1 1/4x24	47 207
1 1/2x12	47 243
1 1/2x24	47 247
1 3/4x12	47 283
1 3/4x24	47 287
2x12	47 323
2 1/2x12	47 403
2 1/2x24	47 407
3x12	47 483



WELD HELP KIT

Introductory assortment of Carbon Products at special price. No. 49 021

CARBON PASTE . . .

The same properties and uses as plates and rods. With the consistency of putty, it is easily fit to irregular shapes.

12 oz., No. 49 011 5 lb., No. 49 012 40 lb., No. 49 013

PROTEX SURFACE PROTECTION COMPOUND . . .

Used for surface protection with Arcair process, welding or heat treating and stress relieving operations. Brush on. It dries fast and will not blow off.

1 lb., No. 53 001 1 gal., No. 53 011 5 gal., No. 53 015

Washington Lancaster, Ohio

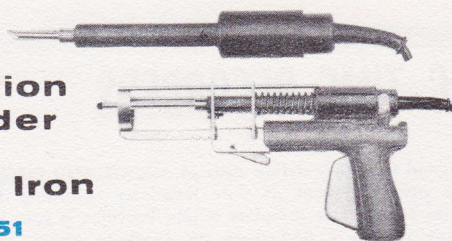
Combination Spot Welder and Soldering Iron

MODEL 12-051

Here is a handy dual-purpose tool. As a portable arc spot welder it is useful in joining sheet metal and in similar applications. Its gun type frame makes it easy to use and external groundings is unnecessary. When removed from the frame its body is a soldering iron which, because of its carbon tip, has far greater heat output than the conventional type.

Ideal for body and sheet metal shops, welding and machine repair shops, farmers, ranchers, and maintenance.

Soldering Electrode Assortment — 94-862-001

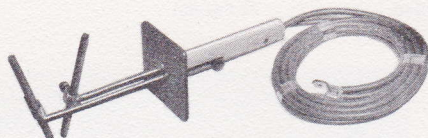


Twin- Electrode Welding Torch

MODEL 11-061

Especially adaptable to brazing, soldering, pre-heating and hard surfacing, the Arcair twin-electrode torch may be used with $\frac{1}{4}$ ", $\frac{3}{16}$ " and $\frac{3}{8}$ " electrodes, depending on the work and heat desired.

A/C COPPER COATED CORED WELDING ELECTRODES 6" LENGTH						
Diam.	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{7}{16}$ "	$\frac{1}{2}$ "
No.	40 031	40 041	40 051	40 061	40 071	40 081



Underwater Torch

Model 14-050-100

First new underwater cutting torch on market in 20 years. Employs electric arc-oxygen principle. Rugged but compact...easy to use. Incorporates many design features for cutting efficiency and operator safety. Operator can retain possession of torch while both hands are free. Instant, one-hand electrode ejection and replacement. Head is water-proof and fully insulated. Flash-back prevention built into torch. Special valve prevents seepage of water into oxygen line.

Arcair Co. supplies two different underwater cutting electrodes: No. 42-053-000, $\frac{5}{16}$ " x 12", hollow, metal-lined, copper-coated, carbon-graphite, not insulated; No. 42-059-001, $\frac{5}{16}$ " x 14", coated metal, tubular, similar to those used by U.S. Navy for many years.



Flex Air Mover

An inexpensive, yet efficient, jet pump type exhaust system for use in removal of smoke or fumes from closed or poorly ventilated work areas. Simple maintenance free design, low noise level operation. Approximately 8 ft. long.

MODEL 54-002



ARCAIR GOUGING ELECTRODES

You'll get best results using genuine Arcair Electrodes in your Arcair torch. Consistent quality means less breakage, highest resistance to thermal shock, and maximum arc stability. Made from a special compound of carbon and graphite, developed especially for use in the Arcair torch. Arcair carbon-graphite electrodes are available in both plain and copper-clad types. Plain type is less expensive, uses slightly less current. Copper-clad electrodes last longer, carry higher currents, produce a more uniform groove.



POINTED

PLAIN

GOUGING, ELECTRODES, PLAIN, GRADE N, DC, POINTED

$\frac{1}{8}$ x6	21 021
$\frac{1}{8}$ x12	21 023
$\frac{5}{32}$ x12	21 983
$\frac{3}{16}$ x12	21 033
$\frac{1}{4}$ x12	21 043
$\frac{5}{16}$ x12	21 053
$\frac{3}{8}$ x12	21 063

GOUGING, ELECTRODES, PLAIN, GRADE Q, DC, POINTED

$\frac{1}{2}$ x12	21 083
$\frac{5}{8}$ x12	21 103
$\frac{3}{4}$ x12	21 123

COPPERCLAD

GOUGING, ELECTRODES, COPPER CLAD, GRADE F, AC, POINTED

$\frac{3}{16}$ x12	20 033
$\frac{1}{4}$ x12	20 043
$\frac{5}{16}$ x12	20 063
$\frac{1}{2}$ x12	20 083

GOUGING ELECTRODES, COPPERCLAD, GRADE N, DC, POINTED

$\frac{5}{32}$ x12	22 983
$\frac{3}{16}$ x12	22 033
$\frac{1}{4}$ x12	22 043
$\frac{5}{16}$ x12	22 053
$\frac{3}{8}$ x12	22 063

GOUGING, ELECTRODES, COPPERCLAD, GRADE Q, DC, POINTED

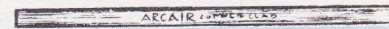
$\frac{1}{2}$ x12	22 083
$\frac{5}{8}$ x12	22 103
$\frac{3}{4}$ x12	22 123
1x12	22 163



JOINTED

GOUGING ELECTRODES, COPPERCLAD, GRADE Q, DC, JOINTED

$\frac{1}{2}$ x12	24 083
$\frac{5}{8}$ x12	24 103
$\frac{3}{4}$ x12	24 123
1x12	24 163



GOUGING, ELECTRODES, COPPERCLAD, GRADE Q, DC, SQUARE END

$\frac{1}{2}$ x12	23 083
$\frac{5}{8}$ x12	23 103
$\frac{3}{4}$ x12	23 123
1x12	23 163

COATED METAL ELECTRODES (for Cast Iron and Copper Alloys)

$\frac{1}{4}$ x18 — center grip	50 046
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JOINER TUBES

Metal joining tubes for joining pointed or square ended joining electrodes

$\frac{1}{4}$ x2	30 049 002
$\frac{3}{16}$ x2	30 059 002
$\frac{3}{8}$ x3	30 069 003
$\frac{3}{8}$ x4	30 069 004
$\frac{1}{2}$ x3	30 089 003
$\frac{1}{2}$ x4	30 089 004
$\frac{5}{8}$ x3	30 109 003
$\frac{5}{8}$ x4	30 109 004
$\frac{3}{4}$ x3	30 129 003
$\frac{3}{4}$ x4	30 129 004